Developing Best Practices
System-wide actions for coastal resilience

Engineering
Environmental
Community

What is in the system?

- Physical components
  - ► Gray/green infrastructure, multiple lines of defense
- Data and information
  - ► Monitoring structural health, detecting threats
- Decision-making/organizations
  - ► Protocol for enacting emergency measure, tabletop or practice exercises, responsible agency
- People
  - ► Proper use of structures, evacuation mindset, lines of communication, education, recreation, etc.

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Activity: Categorize structures and identify supporting actions

PREPARE – ABSROB	RECOVER - ADAPT
• Prevent / negate threat	• Reduce time to recover full function
• Defend against consequences	• Support the recovery of other critical community functions
• Reduce damage and loss when defenses are breached	• Act over longer periods
• Support immediate emergency response phase	• Provide some risk reduction to combined threats

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Best Practice Brainstorming Instructions

1. Split into similar coastal zone groups.
2. Identify green and gray structures and categorize as prepare/absorb or recover/adapt
3. List supporting social, information, and organizational features necessary for success

For today:
- ✓ In brainstorming, no ideas are bad ideas!
- ✓ Ignore capital investment / maintenance funding issues
- ✓ Ignore objections of property owners to easements, loss of view, etc.

* Select a speaker to share ideas with the class.

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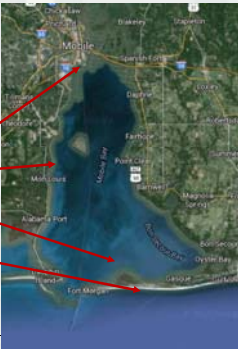
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Best Practices: Examples

Mobile Bay, AL
- Multiple lines of defense

elevate port and transportation infrastructure

natural revetments

wetlands restoration

barrier island beach nourishment

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Best Practices: Examples

Bayville, NY
-Install pumps to speed recovery from nuisance flooding and major storms in low-lying areas

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Best Practices: Examples

Bayville and Breezy Point, NY
- Protocol to move emergency vehicles and debris removal equipment to high ground before flooding.

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Best Practices: Examples

New York City
MTA
- Communicate subway shut down and start up time to the public

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Best Practices: Examples

Multiple cities
- Rapid structural safety assessment/ triage (green-yellow-red stickers

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